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D1L103 QUENCH SUMMARY

Magcool Bay E

QUENCH #	RUN #	CURRENT (A)	T(in) (K)	T(out) (K)	START (ms)	MIITS	COIL	COMMENTS
T = 4.5K (nom)								
Bore tube sealed and evacuated (warm bore tube with spacers and insulation added)								
1	10	6363	4.549	4.618	-51	11.0	upper	(a)
2	11	6981	4.538	4.633	-38	9.8	lower	
3	12	6673	4.574	4.668	-42	9.5	lower	
4	13	6776	4.519	4.599	-40	9.5	lower	
warm bore tube open with heater operating								
repeated cycles to 5900A (10,40,60A/s) then 6500A (40,60A/s) for field measurements --- no quenches								
5	53	6844	4.507	4.596	-37	9.4	lower	

Notes:
a) Ramp rate for quenches was 20A/s. For quench 1, the magnet stopped at 5500A for 1 min before continuing the ramp at 20A/s.
b) There was a 1 hour or more wait between quenches.
c) The temperature sensors recorded are diode sensors T9 at the helium input and T8 at the output. Both have associated redundant sensors.
d) There were no auxiliary voltage taps in the magnet coils.
e) Data acquisition sampling rate was 1kHz for all quenches.
f) Strip heaters were fired at 100V (nom) and 108ms.